

THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant : Chikara MURAKATA et al.

Confirmation No.: 6880

Serial No : 10/575,093  
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Group Art Unit: 1626

I.A. Filed : October 8, 2004

Examiner: S. LOEWE

For : THIADIAZOLINE DERIVATIVE

**FIFTH SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT**

Commissioner of Patents  
U.S. Patent and Trademark Office  
Customer Service Window, Mail Stop Amendment  
Randolph Building  
401 Dulany Street  
Alexandria, VA 22314

Sir:

In accordance with the duty of disclosure under 37 C.F.R. §1.56 and §§1.97-1.98, and supplemental to the Information Disclosure Statements previously filed, Applicants hereby direct the Examiner's attention to the following documents, which are cited in the Supplementary Partial European Search Report for European Application No. EP 04 72 8012, which is the European family member of commonly assigned and copending U.S. Application No. 10/553,222. The European Examiner cites:

- (1) WO 2004111023 A1, December 23, 2004;
- (2) EP 1 632 484 A1, March 8, 2006;
- (3) U.S. Patent Application Publication No. 2007/0276017 A1 (MURAKATA et al.), November 29, 2007, Applicants note that this document is a family member of document (2);
- (4) EP 1 671 957 A1, June 21, 2006; and
- (5) U.S. Patent Application Publication No. 2007/0112044 A1 (MURAKATA et al.), May 17, 2007, Applicants note that this document is a family member of document (4).

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Furthermore, as discussed in the concurrently filed response under 37 C.F.R § 1.111, Applicants resubmit herewith the following documents:

- (6) DD 243930 A1, March 18, 1987;
- (7) EP 0 217 519 B1, April 8, 1987;
- (8) EP 1 454 903 A1, September 8, 2004;
- (9) JP 8-34734 A, February 6, 1996, accompanied by an English language abstract thereof;
- (10) JP 62-53976 A, March 9, 1987;
- (11) WO 00/42029 A1, July 20, 2000;
- (12) WO 01/30768 A1, May 3, 2001;
- (13) WO 03/039460 A2, May 15, 2003;
- (14) WO 2004/039774 A2, May 13, 2004;
- (15) GRACHEV et al., "Spectral Luminescence Properties of a Number of New Heterocyclic Compounds in Solutions," Journal of Applied Spectroscopy, Vol. 67, No. 3, pp. 461-466 (2000);
- (16) GRAUBAUM et al., "Cyclisierungsreaktionen von Thiosemicarbazonen und Isocyanaten zu 1,3,4-Thiadiazolinen," Z. Chem., vol 26, no.3, pp. 99-100 (1986); and
- (17) Chemical Abstract No. 119:202821 of ZELENIN et al., "The chain-ring-ring tautomerism of thiosemicarbazones of alkanals in acidic media," Tetrahedron, vol. 49, no. 24, pp. 5327-5332 (1993).

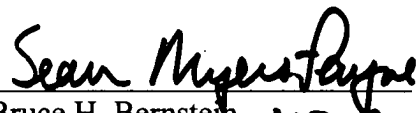
Copies of the above-cited documents (with the exception of the U.S. patent applications) and the Supplementary Partial European Search Report for European Application No. EP 04 72 8012 are enclosed together with a completed copy of the Form PTO-1449 listing these documents. Accordingly, the Examiner is requested to consider these documents and to indicate such consideration by returning a signed and initialed copy of the Form PTO-1449 with the next communication.

Further to 37 C.F.R. §1.98 (a)(2)(ii), copies of the U.S. patent applications cited above are not enclosed herewith. However, if any copy is needed, the Examiner is respectfully requested to contact the undersigned.

Applicants note that this Supplemental Information Disclosure Statement is filed after the issuance of a non-final Office Action. Accordingly, the fee set forth in 37 C.F.R. § 1.17 (p) is submitted herewith. If for any reason another fee, including the fee under 37 C.F.R. § 1.17 (p) is deemed necessary, the Patent and Trademark Office is hereby authorized to charge Deposit Account No. 19-0089 any amount necessary to ensure consideration of the submitted materials.

If there are any questions, the Examiner is invited to contact the undersigned at the telephone number listed below.

Respectfully submitted,  
Chikara MURAKATA, et al.

  
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December 19, 2008  
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